

J. S. TODD.
Heating Stove.

No. 47,670.

Patented May 9, 1865.

Fig. 1.

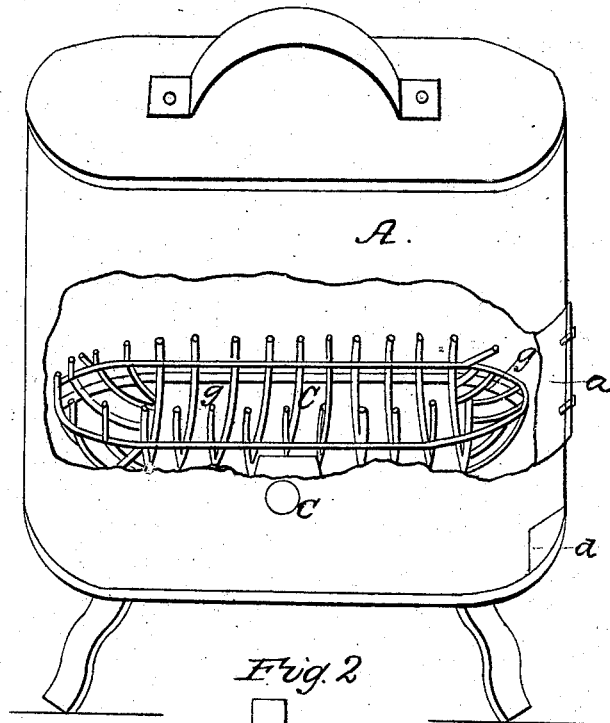
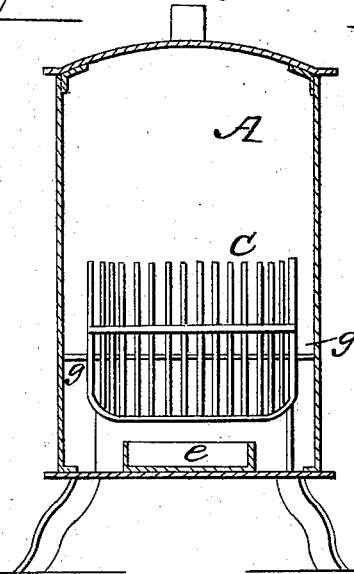


Fig. 2.



Witnesses
A. Wagner
J. A. Lutz

Inventor
J. S. Todd
By his Attorney
W. Beaudouin

UNITED STATES PATENT OFFICE.

JOSEPH S. TODD, OF MACON CITY, MISSOURI.

AIR-TIGHT COAL-STOVE.

Specification forming part of Letters Patent No. 47,670, dated May 9, 1865.

To all whom it may concern:

Be it known that I, JOSEPH S. TODD, of Macon City, in the county of Macon, in the State of Missouri, have invented a new and useful Improvement in Air-Tight Coal-Burning Stoves; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Figure 1 is an elevation in perspective of the stove, with an opening, so as to show the position of the grate within the same. Fig. 2 is a sectional elevation of the stove.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I construct the wrought or sheet iron cylinder A with an opening and a door at *a* for the introduction of coal, with an opening at *b*, which can be closed by means of a slide, for the admission of air, and with an opening at *c*, also for the admission of air, and an opening at the bottom, at *d*, for the ash-pan *e*.

There should be a lining of sheet metal between the grate C and the cylinder A for the purpose of protecting the cylinder A from sulphur and other injurious components of the coal; and I construct the basket-shaped grate C of cast-iron, resting by means of legs on the bottom of A, and otherwise not touching A. There will be an annular plate of cast-iron, *g*, which connects closely with the sides of the grate C, and prevents the cold air which enters below at *b* and *c* from passing upward and to the stove pipe without reaching the burning coals.

Having thus described my invention, what I desire to secure by Letters Patent is—

The combination of an air-tight sheet-iron stove with the basket-shaped grate and the horizontal cast-iron annular plate *g*, as and for the purposes set forth.

J. S. TODD.

Witnesses:

W. A. MAYHEW,
M. RANDOLPH.